UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF SCIENCE EDUCATION
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Bachelor of Education in Science **MODULE HANDBOOK**

Module name:	Lab-work of Earth Science
Module level, if applicable:	Undergraduate
Code:	IPA 6123
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	3rd (third)
Module coordinator:	Widodo Setiyo Wibowo, M.Pd,
Lecturer(s):	Widodo Setiyo Wibowo, M.Pd, Joko Sudomo, MA, Eko Widodo, M.Pd.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90.67 hours per semester which consists of 100 minutes lectures and 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	1 (3 ETCS)
Prerequisites course(s):	-
Targeted learning outcomes:	After accomplishing this course students are able to: CO1. show independency and responsibility in carrying out individual tasks and group assignments CO2. show independent, systematic, and measurable performance CO3. make decision about solving problem related earth science experiment consisting of earth's surface and interior as well as various changes occurred on surface and inside earth, earth history, geological age measurement, earth in the past, atmosphere and energy, weather, water and climate, and water on earth (hydrosphere). CO4. responsible for achieving results of group work.
Content:	This course contains solving problem related to earth science

<table>
<tr><td></td><td>experiment consisting of earth's surface and interior as well as various changes occurred on surface and inside earth, earth history, geological age measurement, earth in the past, atmosphere and energy, weather, water and climate, and water on earth (hydrosphere).</td></tr>
<tr><td>Study/exam achievements:</td><td>Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.

The final mark will be weight as follow:
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO1, CO2 and CO3 CO4</td><td>a. Performance
b. Report
c. Presentation
d. Review Session</td><td>Performance and written test</td><td>10%
50%
20%
20%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer, lab apparatus</td></tr>
<tr><td>Literature:</td><td>A. Team of Earth Science. (2018). Earth Science Practicum Guidance. Yogyakarta: FMIPA UNY.
B. Marsha Barber and Kelly S Kissamis, 1990, Earth Science, USA, Glenview, Illinois: Scott, Foresman and Company.
C. Teacher Resources for Practice and Support, The Restless Earth, 2004, New York: McGraw-Hill School Division.
D. CPO Focus on Earth Science First Edition. (2007). Delta Education LLC. Nashua, New Hampshire.
E. Mcguire, Thomas.(2005). Earth ScienceThe Physical Setting. AMSCO SCHOOL PUBLICATIONS, INC. New York.</td></tr>
</table>

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12

CO1		✓										
CO2								✓				
CO3										✓		
CO4												✓